

TRAILBOSS

Towbar Fitting Instructions To Suit **MITSUBISHI ROSA BUS** Part Number **QTCL650L** Rating **2000/200 kg**

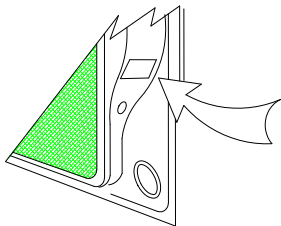
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETED

WARNING:

1. Do not, drill, cut, weld or otherwise modify the tow bar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any onboard computers. If in doubt, check with the vehicle's manufacturer.
3. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorised **Trailboss** dealer if further information is required.

General:

1. Ensure all hardware items have been included refer to assembly diagram.
2. It is recommended that the instructions are read through and completely understood before making any attempt to fit this product.
3. Be wary of any changes to vehicle designs or other accessories that may conflict with the installation of this product.
4. Before drilling ensure that the area is clear of fuel, electrical & other components.
5. All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.
6. For vehicles that require the bumper to be cut. Ensure cut out area is in correct position on the vehicle prior to cutting the bumper.
7. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorized **Trailboss** dealer if further information is required.
8. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
9. Tow bar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below)**.
10. Trailboss recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2**.
11. **PLEASE NOTE:** It is advised to remove your lug or tbm when not actually towing so as to produce a clear view of the vehicles registration plate if obscured, and to also provide maximum available departure angle
12. Pull Pin must be fit in down position.



Place load rating sticker
inside driver's door here

FOR TRAILER TOWING PURPOSES ONLY
For towing capacity details please refer to vehicle owner's manual or to the manufacturer. Overloading can void your warranties.

RECOMMENDED ASSEMBLY TORQUE LISTING

<u>Diameter</u>	<u>Grade 8.8 Bolt</u>
M6	9.5 Nm
M8	21.7 Nm
M10	43.4 Nm
M12	77.3Nm
M14	146 Nm
M16	189.8 Nm

Tow bar Maintenance and Care.

Trailboss recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

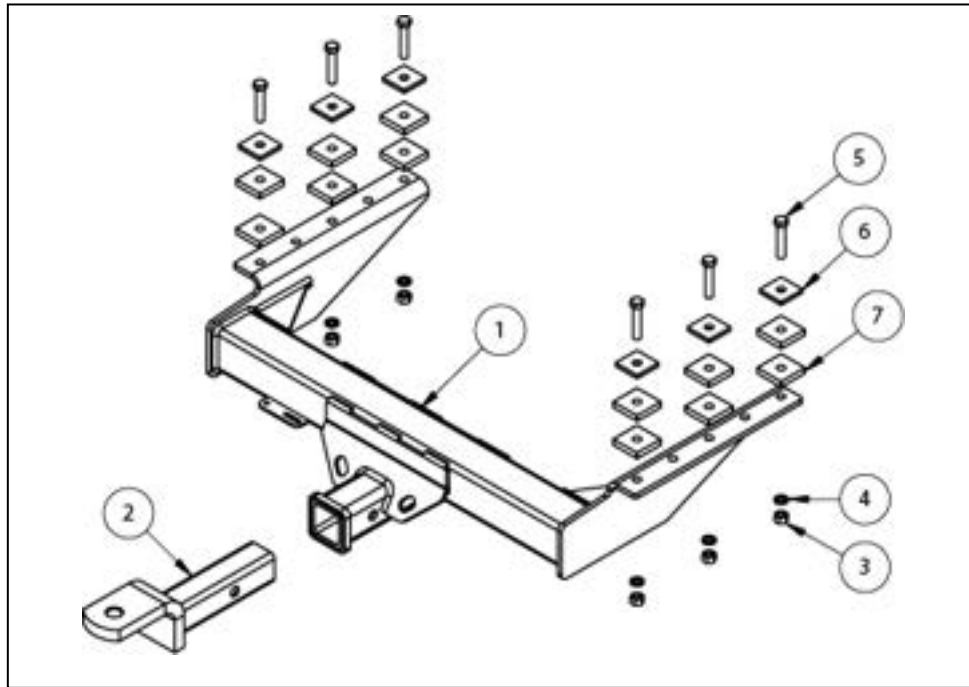
So as to avoid injury, when not towing it is suggested that the tongue, Pull Pin and R-clip are removed then stored in a safe, clean and dry place, away from excessive moisture.

Hitch Pull Pins and spring "R" clips are regularly checked for proper installation. Replace any worn or defective parts.

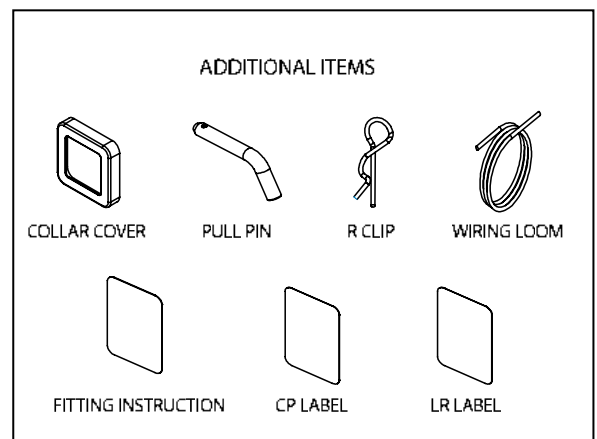
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QTY	DESCRIPTION	ITEM NO.
1	WELDED ASSEMBLY MITSUBISHI ROSA	1
1	TRAILER BALL MOUNT	2
6	NUT HEX M12x1.75	3
6	WSHR SPRING FT SEC M12x4.0x2.5mm Z/P	4
6	BOLT M12x60x1.75	5
6	LOOSE PLATE 45x6x45 Φ13	6
12	LOOSE PLATE 50x10x50 Φ13	7





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INSTRUCTION:

1. Using Jack or Trolley offer Towbar up to Chassis Rail.
2. Use Loose Plates supplied to Pack Side arms down to clear Rivets.
3. Square Towbar up to truck Chassis from all angles.
4. Clamp in Place, then centre punch and drill all 6 holes using front centre and rearmost holes in arms.
5. Place 6 M12 x 60 Bolts through Chassis, then Plates if required, then Towbar and secure in Place with Flat Washer, Spring Washer and M12 Nuts.
6. Tighten to Torque Listing.
7. Fit Trailer Ball Mount and secure with Pin & R-clip.



Wiring Loom Fitting Instructions
To Suit Fuso Rosa
(2013 – Onwards)
Part Number 100148-WL

Wiring Loom Installation Instructions

Fuso Rosa
(2013 – Onwards)
Part No: 100148-WL

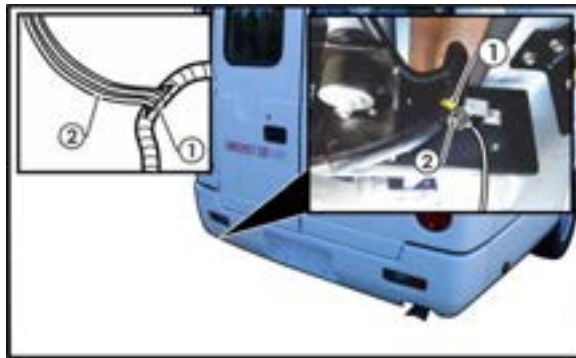
Tail Harness Length Required: 1200mm

Wiring Loom Installation Time: Approx 15 Mins

Wiring Loom Fitting Instructions To Suit Fuso Rosa (2013 – Onwards) Part Number 100148-WL

1. On the LHS rear of the vehicle, locate the tail light wire corrugate tube.
2. Cut through the corrugated tube (1) and following the table below, cut the ezy-tap terminals off and solder the trailer patch wires (2) to the corresponding vehicle wires.

Note: Ensure all solder joints have sufficient solder and are taped up.



Function	Trailer Patch	Vehicle Connector
R.IND	GREEN	GREEN / YELLOW
L.IND	YELLOW	GREEN / BLUE
REVERSE	BLACK	RED / BLUE
TAIL	BROWN	BLUE / RED
BRAKES	RED	WHITE

3. Connect the trailer patch ground ring terminal to the existing vehicle grounding point.
4. Mount the trailer socket to the tow bar mounting bracket using M4 fasteners (not supplied).
5. Route the tail harness (tail length 1200mm) across the tow bar towards the LHS of the vehicle.
6. Connect the tail harness 8-way connector to the trailer patch 8-way mating connector.
7. **Waterproof the trailer patch 8-way connector and the tail harness 8-way male connector using silicone or grease.**
8. Test the trailer harness function using a Light Board or multimeter.
9. Secure all harnesses using cables ties (not supplied).
10. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
11. Place the instructions in the glove box after fitment.